



University of Kelaniya - Sri Lanka

Centre for Distance and Continuing Education

Faculty of Commerce & Management Studies

Bachelor of Business Management (General) Degree First Examination (External) – 2023

May - 2025

BMGT E 1065 – Information Technology

Time: 03 Hours

Instructions

- Read the instructions and questions very carefully.
- Duration: 3 Hours
- Total Marks: 100 (Part I – 40 marks, Part II – 60 marks)
- These items are strictly prohibited inside the examination hall while attempting this paper: Mobile phones/ Smartphones/ Smartwatches/ Any other electronic or communication devices.
- ***This paper is divided into two parts: Part I and Part II.***

Part I: Structured Questions (40 Marks)

- Answer all questions in Part I on the paper itself.
- Do not remove or detach any page from the Part I paper [whether attempted or not].

Part II: Essay-Type Questions (60 Marks)

- Use the official answer booklets and supplementary sheets provided to write your answers.
- Attempt only 03 (THREE) out of the 04 (FOUR) questions provided.
- Each question carries 20 marks, making a total of 60 marks for Part II.
- Ensure your answers are clearly numbered and each main question should be started from a new page.

Underline the most appropriate answer from the four options given.

- 1) Which of the following is an example of system software?
 - a) Microsoft Word
 - b) Google Chrome
 - c) Windows OS
 - d) Power BI

- 2) What is a major advantage of using cloud-based business software?
 - a) Enables remote access and collaboration
 - b) Increases manual data entry errors
 - c) Supports complex calculations
 - d) Increase gaps in communication

- 3) What is the function of Augmented Reality (AR)?
 - a) A fully immersive digital environment that replaces the real world.
 - b) Overlays digital elements (images, text, animations) onto the real world.
 - c) A hybrid of VR and AR where digital objects interact with the real world in real-time.
 - d) Controls and visualizes data from connected devices.

- 4) What is the full form of the primary storage device of a computer?
 - a) Reduced Access Memory.
 - b) Real Time Memory.
 - c) Random Access Memory.
 - d) Read Only Memory.

- 5) A Pseudocode is
 - a) A machine - level code
 - b) A flow chart
 - c) Structured English language use to communicate the logic of a program
 - d) None of the above

- 6) What does the keyword “IF” represent in pseudocode?
- a) Loop
 - b) Decision
 - c) Function
 - d) Variable declaration
- 7) What is pseudocode used for in programming?
- a) Executing code
 - b) Designing algorithms
 - c) Debugging errors
 - d) Compiling programs
- 8) What is not an advantage of a database system?
- a) Improves Efficiency
 - b) Data Safety
 - c) Data Sharing
 - d) Data leakage
- 9) According to the way that the circuits are used, logic gates can be classified, into two (02) types. What are they?
- a) Functional Gates and Non - Functional Gates
 - b) Basic Logic Gates and Combinational Logic Gates
 - c) X Gates and Y Gates
 - d) Effective Gates and Ineffective Gates
- 10) Select an example of a high - level Language
- a) English Language
 - b) French Language
 - c) Java
 - d) None

Provide your answers only in the space provided on this question paper. Do not use the answer booklet.

- 11) What is the primary function of a computer system, and why is this function essential for decision-making?

- 12) Provide examples for computer technology applications in the education field.

- 13) How can a well-designed information system help a business gain a competitive advantage in the market?

14) Describe the peripheral devices in the computer.

15) Briefly explain why utility software has more significance in computer operations.

16) What is a “Truth Table”? Define briefly.

17) What are the preventive strategies organizations can implement to ensure information security?

- 18) State any two (02) types of Database Systems.

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- 19) Fill in the truth table for the NAND Logic Gate

A	B	$Q = A.B$	$Q = \overline{A.B}$
0	0		
0	1		
1	0		
1	1		

- 20) Identify two (02) common information security threats and briefly explain how each one can harm an organization.

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(Total 40 Marks)

---End of part I---

Part II

Use the answer booklet provided to write your answers for this section. Answer only three (03) questions out of the four (04) given.

Question No.01

- a) Differentiate between Random Access Memory (RAM) and Read Only Memory (ROM).
(06 Marks)
- b) By taking an example, Discuss the application of VR technology in business management and how it excels the strategic advantages.
(07 Marks)
- c) "The Central Processing Unit (CPU), often called the heart of the computer". Do you agree with the statement and justify why it is?
(07 Marks)
- (Total 20 Marks)**

Question No.02

- a) List down the five (05) main types of flow charts and explain them.
(10 Marks)
- b) Draw a flowchart on "Deciding to wear a hat or not or taking an Umbrella to go outside".
(10 Marks)
- (Total 20 Marks)**

Question No.03

- a) *"Operating systems are the invisible managers of digital experiences."*
Discuss this statement by explaining how the User Interface (UI) and Device Management functions of an operating system contribute to the effective operation of a computer system. Use real-life examples to support your discussion.
(10 Marks)

- b) *"While computers have revolutionized modern society, they have also introduced new risks."*
- i. Critically examine the positive impacts of computers on society in areas such as communication, education, and healthcare.
(04 Marks)
 - ii. Then, discuss at least two (02) major security concerns that have emerged with increased computer usage.
(02 Marks)
 - iii. Suggest two (02) practical ways to minimize these risks while continuing to benefit from digital technologies.
(04 Marks)
- (Total 20 Marks)**

Question No. 04

- a) *"The Internet acts as a catalyst that energizes every sector of the modern world."*
Discuss how the Internet has transformed and energized at least three (03) key sectors, such as education, business, healthcare, government services, or entertainment using specific examples.
(10 Marks)
- b) *"ICT is not just shaping the future—it is rewriting the rules of today's world."*
Discuss this statement by examining at least two (02) hardware platform trends and two (02) software platform trends in Information and Communication Technology (ICT). Briefly explain how these trends are influencing modern business operations, education, or daily life. Use real-world examples to support your answer.
(10 Marks)
- (Total 20 Marks)**